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PATE: March 24, 2006 TIME: TO: Refund Branch FAX NO.: 571-273-6500 FROM: Christopher R. Lewis ADMIN. ASST.: Lisa Bennett APPLN. NO.: 10/530,166 ATTY. DOCKET NO.: JMYT-349US TITLE OF APPLN.; EXHAUST SYSTEM FOR A DIESEL ENGINE COMPRISING A NOX-TRAP FILING DATE: October 11, 2005 ART UNIT: 3747 FIRST INVENTOR: Martyn Vincent Twigg CONF. NO.: 5620 TITLE OF DOCUMENT (and List of Attachments): Transmittal Form; Request for Refund; Copy of February 2006 Deposit Account Statement; and Copy or Amendment filed April 4, 2005 Total Number of Pages: 14 (Including this form) COMMENTS		•	www.ratnerprestia.com		
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	Copy of February 200	6 Deposit Account Stateme	nt; and Copy of Amendment filed	April 4, 2005	
COMMENTS	<u></u>	Total Number of	Pages: <u>14</u> (including this	form)	
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Approved for use through 7/31/2005, O RB 0651-0031
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Firm Name RatnerPresta	M				_	
Signature						
Printed Name Christopher R. Lewis						
Date March 24, 2008 Registration No. 36,201						
CERTIFICATE OF TRANSMISSION / MAILING						
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Signature 51/1	30 A M	ALX_				
Typed or Printed Name Lisa Bennett			Dat	le March 24, 200)6	
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complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case, complete, including gethering, preparing, and submitting the complete that the individual case, and comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the light information. Any comments on the amount of time you require to complete the formation reducing this burden, should be sent to the light information. Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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PATENT MAINTENANTSPOT DIVISION

T-588 P.003/014 F-848

JMYT-349US

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IN THE UNITED STATES PATENT & TRACEMENT OFFICE

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In re Appln. No:

10/530,166

Applicant:

Martyn Vincent Twigg

Filed:

October 11, 2005

Title:

EXHAUST SYSTEM FOR A DIESEL ENGINE COMPRISING A NOx-TRAP

TC/A.U.:

3747

Examiner:

Docket No.:

JMYT-349US

OR

Patent No: Issued:

REQUEST FOR REFUND

(Improper Charge of Deposit Account)

Mail Stop 16 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Control of the Contro

Sir:

I. REFUND REQUEST

This is a request for refund with respect to the charge to Deposit Account No. 18-0350 shown on the statement dated <u>February 2006</u> for the above-identified application/ patent.

Accompanying this request is a copy of the monthly statement on which the referred error is listed.

Page 1 of 3

04 justment date: 12/19/2006 PBOOKER 02/27/2006 PBOOKER 00000001 180350 01 FC:1615 450.00 CR

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PAGE 3/14 * RCVD AT 3/24/2006 12:02:30 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/6 * DNIS:2736500 * CSID:6104070701 * DURATION (mm-ss):03-34

II. FEES CHARGED FOR WHICH REFUND IS REQUESTED

	·			f d
	Filing Fee	\$		0
	Surcharge for filing the basic filing fee on a date later than the filing date of the application (37 CFR 1.16(e))	\$		0
	AND/OR			
	Surcharge for filing the oath or declaration on a date later than the filing date of the application (37 CFR 1.16(e))	\$		0
	Extension of time - months	\$		0
図	Excess claims	\$	4	50
	Issue Fee	\$		0
	Petition Fee	\$		0
	Patent Maintenance Fee - year	\$		0
	Patent Maintenance Fee Surcharge	\$		0
	Other (please explain)	\$		0
	TOTAL REFUND REQUESTED	\$	4	50

III. EXPLANATION OF WHY CONTESTED CHARGE IS IN ERROR

The fee of \$450 (for nine (9) claims in excess of twenty (20)) was charged to Deposit Account No. 18-0350 in February of 2006, for the above-identified application. A copy of the Deposit Account Statement is enclosed.

A Preliminary Amendment (copy enclosed) was filed in this application on April 4, 2005. As indicated in the Preliminary Amendment, this application contains a total of twenty (20) claims, three (3) of which are independent.

Page 2 of 3

JMY1-349US

As the total number of claims in this application does not exceed twenty (20), and there are only three (3) independent claims, no additional fees were due in this application.

Accordingly, a refund of the charge of \$450 is respectfully requested.

IV. MANNER OF REFUND

Please make refund by:

crediting Deposit Account No. 18-0350.

refunding payment.

Respectfully submitted,

Christopher R. Lewis, Reg. No. 36,201

Attorney for Applicant

CRL/irb

Attachments: Copy of Deposit Account Statement of February 2006

Copy of Preliminary Amendment filed April 4, 2005

Dated: March 24, 2006

P.O. Box 980

Valley Forge, PA 19482-0980

(610) 407-0700

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that, on the date shown below, this correspondence is being facsimile transmitted to the Patent and Trademark Office at 571-273-6500.

Date: March 24, 2006

Lisa Bennett

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Page 3 of 3





Deposit Account Statement

Requested Statement Month:

Deposit Account Number:

Name:

Attention:

Address: City:

State:

Zip:

Country:

February 2006

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	02/02	1	10255496	MTS-3360 US	1202	\$50.00	\$14,718.13
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	02/03	1	10660054	MAT-8260US1	1251	\$120.00	\$14,478.13
	02/03	165	6517868	SCQ-101AU1	8013	\$25.00	\$14,453.13
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	02/06	1	09662432	MTS-3205US	1464	\$130.00	\$14,298.13
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	02/06	3	10840522	AGA-104US	2201	\$43.00	\$13,465.13
	02/09	-32	10116373	B\$I-497U\$	1201	\$400.00	\$13,065.13
	02/14	525	60637853	K&C-171USP	8007	\$20.00	\$13,045.13
	02/16	269	10419312	021630-000420	8001	\$15.00	\$13,030.13
	02/21	1	10087579	QDI-105US3	1814	\$130.00	\$12,900.13
	02/21	362	11086890	MKPA-115US	8007	\$20.00	\$12,880.13
	02/21	364	11079127	MKPA-110US	8007	\$20.00	\$12,860.13
	02/22	1	10541731	DTG1-125US	1615	\$500.00	\$12,360.13
	02/22	107	11099072	TCO1-115US	8007	\$120.00	\$12,240.13
	02/23	23	10087579	QDI-105US3	1814	\$130.00	\$12,110.13
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JM/T-349US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appin. No: To Be Assigned Applicant: Martyn Vincent Twigg Filed: Herewith Title: EXHAUST SYSTEM FOR A DIESEL ENGINE COMPRISING A NOx TC/A.U.: Examiner: Confirmation No.: Docket No.: **JMYT-349US** PRELIMINARY AMENDMEN Mail Stop PCT **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313/1450 Sir: Prior to examination, please amend the above-identified application as follows:

Amendments/to the Specification begin on page 2 of this paper. \boxtimes

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Amendments to the Drawings begin on page of this paper and include an attached replacement sheet(s).

図 Amendments to the Abstract begin on page 6 of this paper. A revised Abstract is on page 7 of this paper.

 \boxtimes Remarks/Arguments begin on page 8 of this paper.

JM/T-349US

Amendments to the Specification:

Please add the following new paragraph at page 1, after the title of the application:

This application is the U.S. national phase application of PCT International Application No. PCT/GB2003/004290, filed October 1, 2003, and claims priority of British Patent Application No. 0223126.4, filed October 5, 2002, and British Patent Application No. 0306264.3, filed March 19, 2003.

Please add the following heading at page 1, line 4:

FIELD OF THE INVENTION

Please add the following heading at page 1, line 8:

BACKGROUND OF THE INVENTION

Please add the following heading at page 4, line 8:

DETAILED DESCRIPTION OF THE INVENTION

Please add the following heading at page 7, line 7:

BRIEF DESCRIPTION OF THE DRAWINGS

Please add the following heading at page 8, line 13:

EXAMPLES

Page 2 of 8

<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

- 1. (Currently Amended) An exhaust system for a diesel engine, which system—exhaptising comprises a NO_x-trap comprising at least one first NO_x absorbent and platinum, characterised in that; and
 - at least one second NO_x absorbent consisting essentially of at least one of alumina and/or and ceria-is disposed upstream of the first NO_x-trap
- (Original) An exhaust system according to claim 1, wherein the first NO_x-absorbent is selected from the group consisting of alkaline earth metal compounds, alkali n etal compounds, rare earth metal compounds and mixtures of any two or more thereof.
- 3. (Currently Amended) An exhaust system according to claim 2, wherein the or each alkaline earth metal compounds is selected from the group consisting of barium, magnesium, strontium and calcium.
- 4. (Currently Amended) An exhaust system according to claim 2, wherein the or each alkali metal compounds is selected from the group consisting of potassium and caesium.
- 5. (Currently Amended) An exhaust system according to claim 2, wherein the or each rare earth metal compounds is selected from the group consisting of cerium, yttrium, lanthanum and praseodymium.
- 6. (Currently Amended) An exhaust system according to claim 2, 3, 4 or 5, wherein the or each alkaline earth metal-compounds, the or each alkali metal-compound compounds or the or each rare earth metal-compound compounds is supported on a support material.
- 7. (Currently Amended) An exhaust system according to claim 6, wherein the or each support is selected from the group consisting of alumina, silica, titania, zirconia, ceria and mixtures or a composite oxide of any two or more thereof.
- (Currently Amended) An exhaust system according to claim-6_2, wherein the first NO_x absorbent-comprises the support is a support for the platinum.

Page 3 of 8

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- 9. (Currently Amended) An exhaust system according to only preceding claim, 1 further comprising a catalyst for oxidising NO to NO₂ disposed between the at least one second NO_x absorbent and the NO_x-trap.
- 10. (Original) An exhaust system according to claim 9, wherein the NO oxidation ratalyst is platinum on an alumina support.
- 11. (Currently Amended) An exhaust system according to claim 9 or 10, further comprising a particulate filter disposed between the oxidation catalyst and the NO_x-trap.
- 12. An exhaust system according to any of claims 1 to 10 claim 1, wherein the NO trap further comprises a particulate filter.
- 13. An exhaust system according to any preceding claim, 1 further comprising a catalyst comprising a catalyst component for oxidising hydrocarbon and carbon monox de to water and carbon dioxide and an exygen storage component, which wherein the catalyst is disposed downstream of the NO_{y-trap}.
- (Original) An exhaust system according to claim 13, wherein the oxidation call alyst comprises platinum or palladium supported on a bulk ceria-zirconia mixed oxide oxygenation storage component.
- 15. (Currently Amended) A diesel engine comprising an exhaust system according to any preceding claim 1.
- (Original) A light-duty diesel engine according to claim 15.
- 17. (Currently Amended) An engine according to claim 15 or 16, comprising an engine control unit, when in use, intermittently to adjust the exhaust gas composition to the rich side for regenerating the at least one first NO_x absorbent.
- 18. (Currently Amended) A flow-through substrate comprising: a NO_x-trap complising a first zone coated with a composition comprising at least one first NO_x absorber t and platinum, and a second zone coated with a composition comprising at least one second NO_x-absorbent, which at least one second NO_x absorbent consisting consists essentially of alumina and/or ceria.

Page 4 of 8

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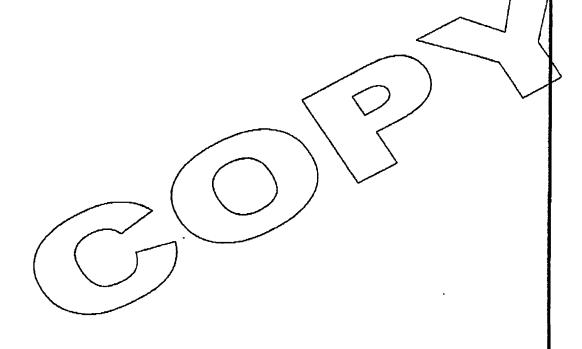
- 19. (Currently Amended) A method of treating NO_x in the exhaust gas of a diesel engine, which method comprising:
 - (i) absorbing NO_x from lean exhaust gas in at least one second NO_x absorbent consisting essentially of alumina and/or ceria, when a downstream NO_x trap comprising at least one first NO_x absorbent and platinum is inactive for reducing NO_x using a suitable reductant;
 - (II) thermally desorbing stored-NO_x from the at least one second NO_x absorbent; and
 - (iii) reducing NO_x on the downstream NO_x-trap using a suitable reductant.
- 20. (Currently Amended) A method according to claim 19, further comprising the step between steps (i) and (ii) of adsorbing NO_x on the at least one first-second NO_x absorbent of the downstream NO_x trap.

Page 5 of 8

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

Attachment

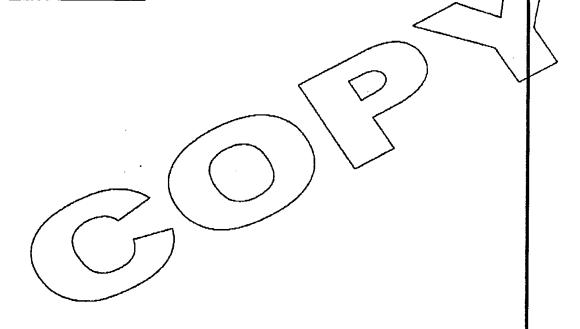


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ABSTRACT

An exhaust system (10) for a diesel engine (12) comprises includes a first NO, trap (16) comprising having at least one first NO_x absorbent and platinum, characterised in that The exhaust system also has at least one second NO_x absorbent (14) is disposed upstream of the first NO_x trap, which The at least one second NO_x absorbent is not associated with platinum is alumina, ceria, or both.



Page 7 of 8

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Remarks/Arguments:

Claims 1-20 are the pending claims in this application.

Respectfully submitted,

Christopher R. Lewis, Reg. No. 36,701 Christian M. Bauer, Reg. No. 51,44

Attorneys for Applicant

CMB/Irb

Dated: April 4, 2005

P.O. Box 980

Valley Forge, PA 19482-0980

(610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 46-0350 of any fees associated with this pommunication

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Kathleen Libby

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